

CATALOG 129



Archer Tubular Steel Towers

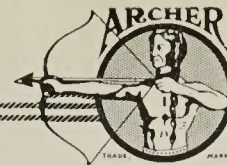


Manufactured by

ARCHER IRON WORKS

Western Avenue and 34th Place

CHICAGO



CATALOG NO. 129

Archer Tubular Steel Towers for Concrete and Building Materials

THE ARCHER IRON WORKS established in 1891 as manufacturers of Contractors' equipment and actively engaged since 1910 in the manufacture of Hoist Tower equipment, rank as one of the leading manufacturers of Hoist Tower equipment for Wood Towers, Steel Mast Towers and Tubular Steel Tower equipment.

This Catalog, which covers our Tubular Steel Tower equipment, illustrates the latest designs in Tubular Towers of simple and rugged construction equipped with quick acting concrete buckets, tower hoppers mounted on quick shifting sliding frames, sliding catheads and boom chuting plants.

Archer Equipment Covered by U. S. Patents

1089046

1649785

1667440

Other Patents Pending



ARCHER IRON WORKS

Established 1891

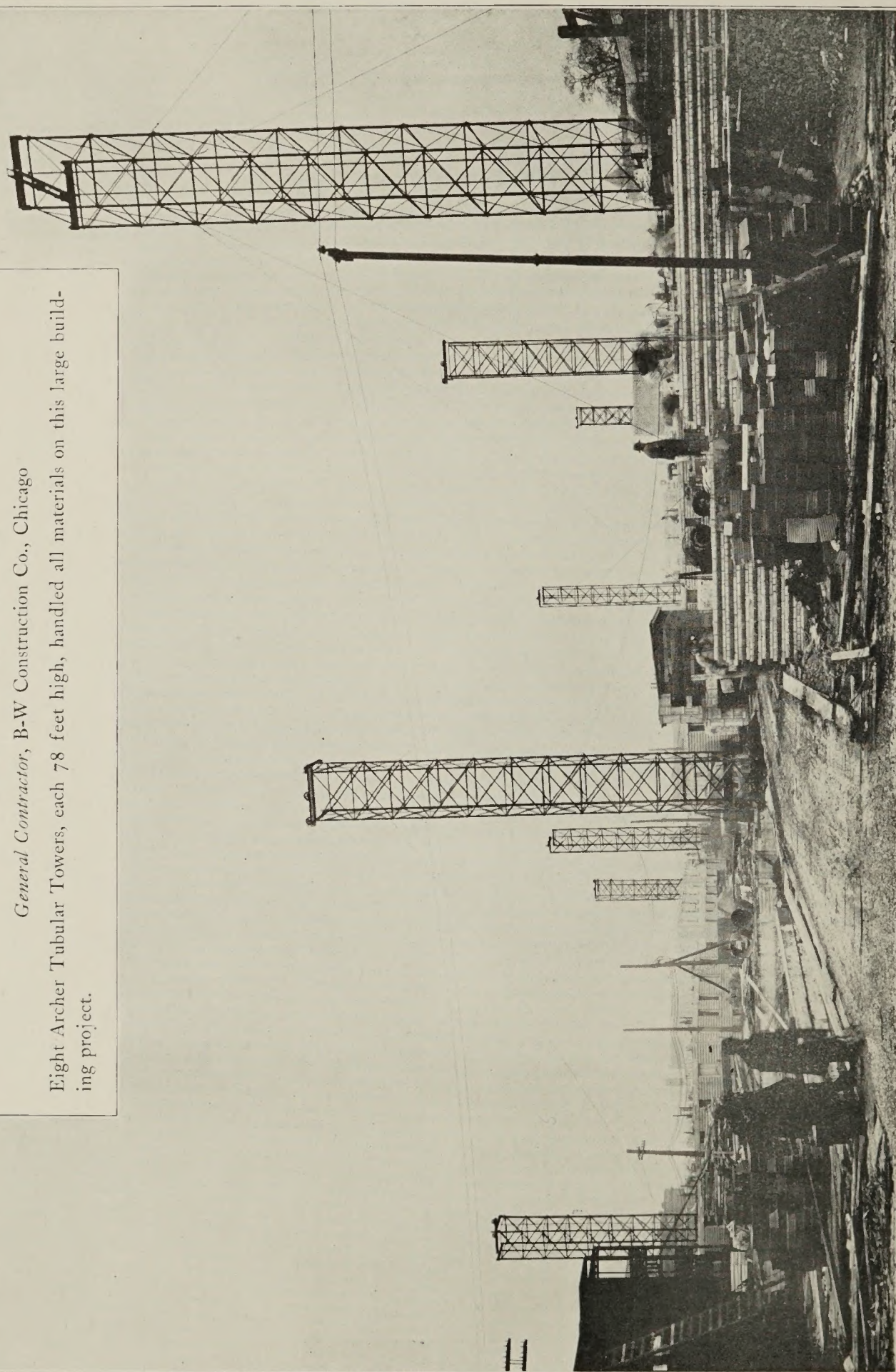
WESTERN AVE. AND 34TH PLACE

CHICAGO, ILL.

THE ARCHER IRON WORKS

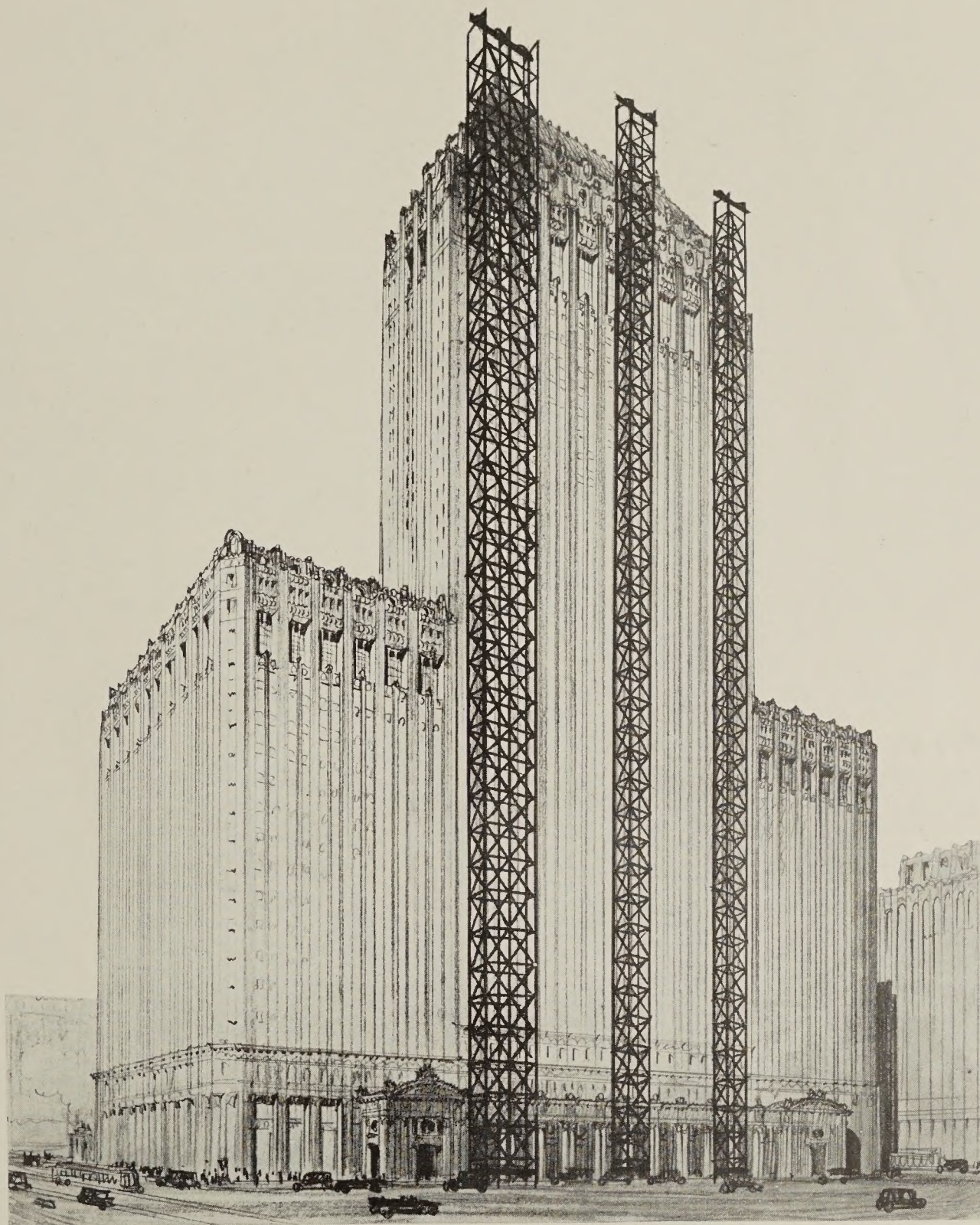


ROSENWALD HOUSING PROJECT, CHICAGO
General Contractor, B-W Construction Co., Chicago
Eight Archer Tubular Towers, each 78 feet high, handled all materials on this large building project.





THE ARCHER IRON WORKS



CHICAGO CIVIC OPERA

General Contractor

John Griffiths & Son, Chicago

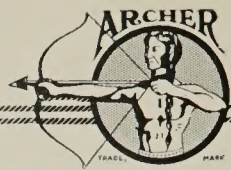
Fireproofing by

National Fireproofing Co., Chicago

One Double Well, 552'6"

Two Single Well Towers, each 552'6", used on
this large project.

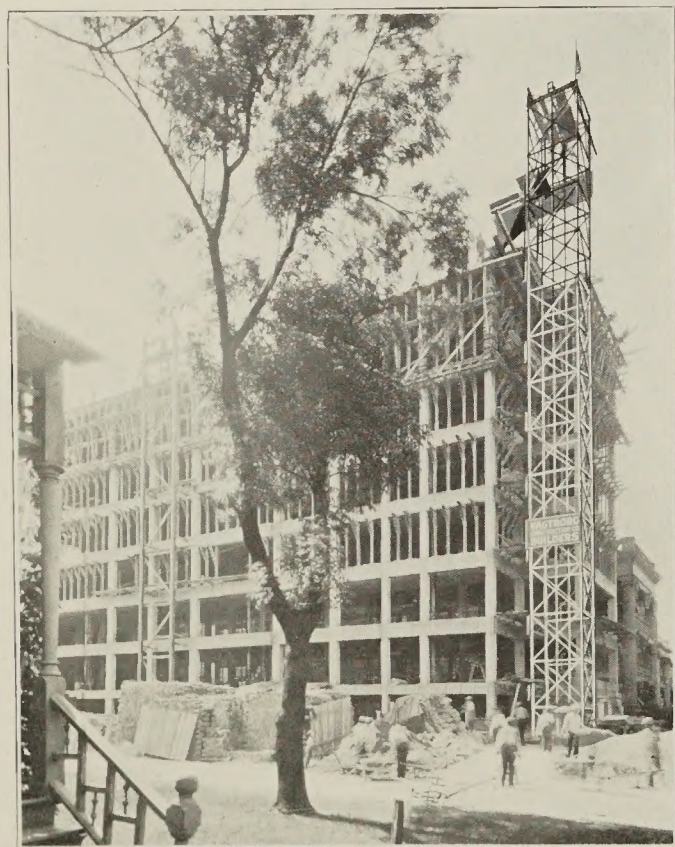
THE ARCHER IRON WORKS



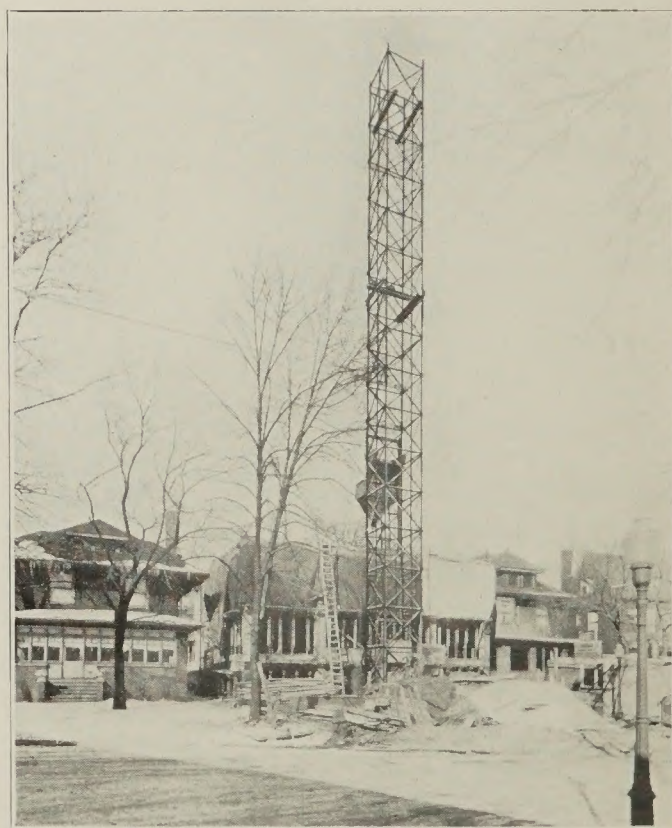
Swift & Company Garage, Chicago
Milton P. Tilley, Chicago, Gen. Contractor



Midwest Apparel Bldg., Chicago
Starrett Bldg. Co., Chicago, Gen. Contractor
Concrete and Masonry by Easthom-Melvin Co., Chicago

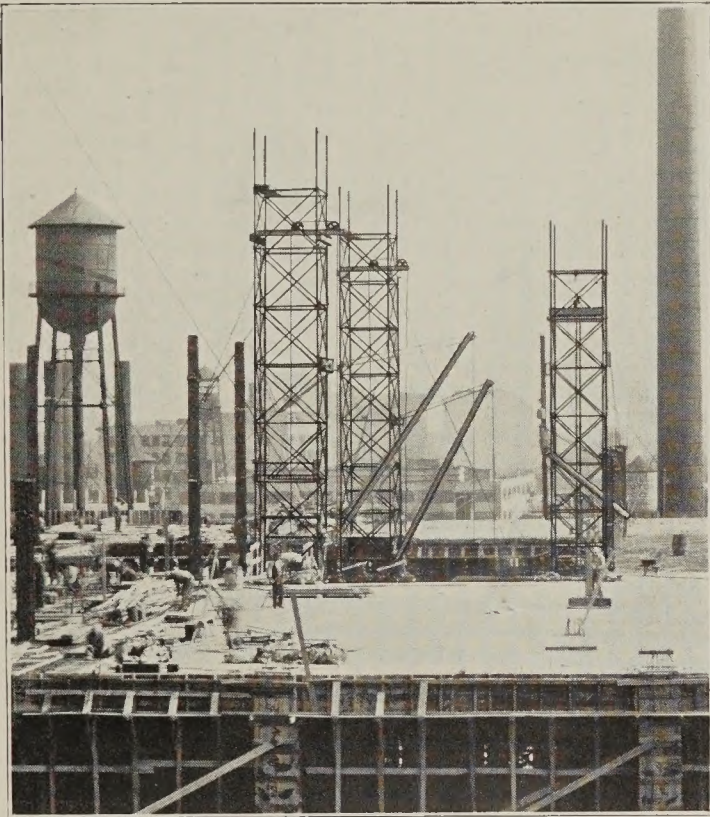


Blackstone and 54th Apt. Bldg., Chicago
Vagtberg Const. Co., Chicago, Gen. Contractor

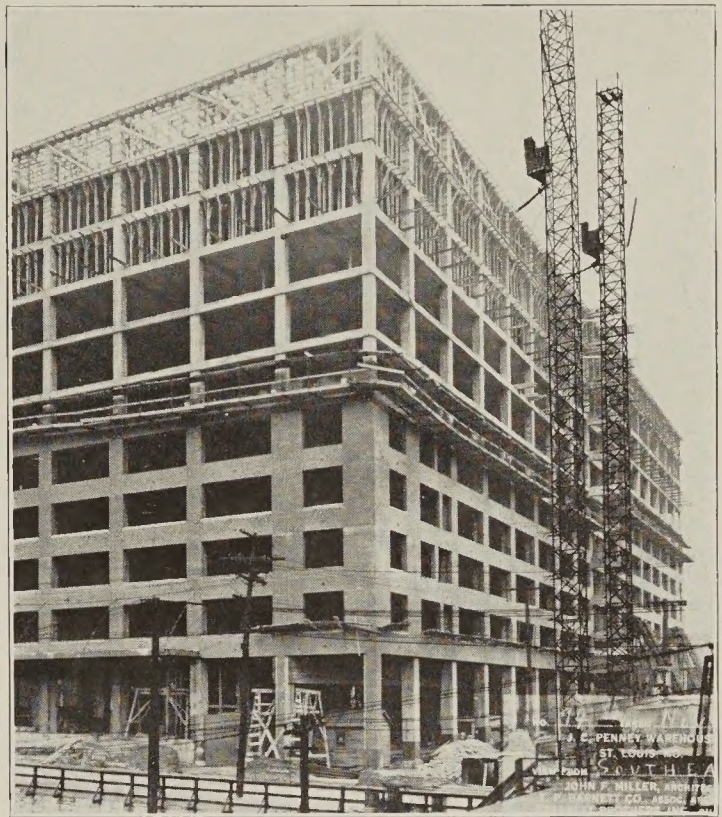


1412 Chase Ave. Apt. Building, Chicago
Mutual Const. Co., Chicago, Gen. Contractor

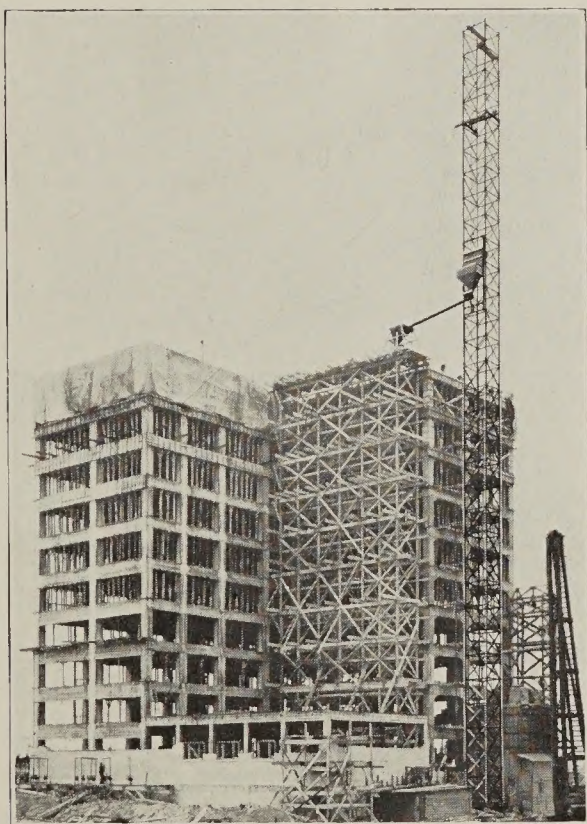
THE ARCHER IRON WORKS



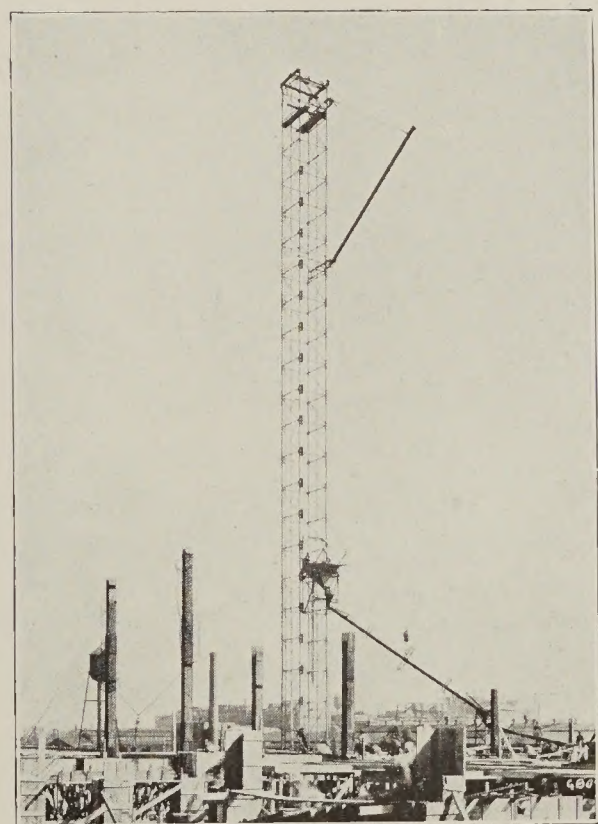
General Motors Laboratory, Detroit
Everitt Winters Co., Detroit, Gen. Contractor



J. C. Penny Warehouse, St. Louis, Mo.
Starrett Bros., Inc., Gen. Contractor



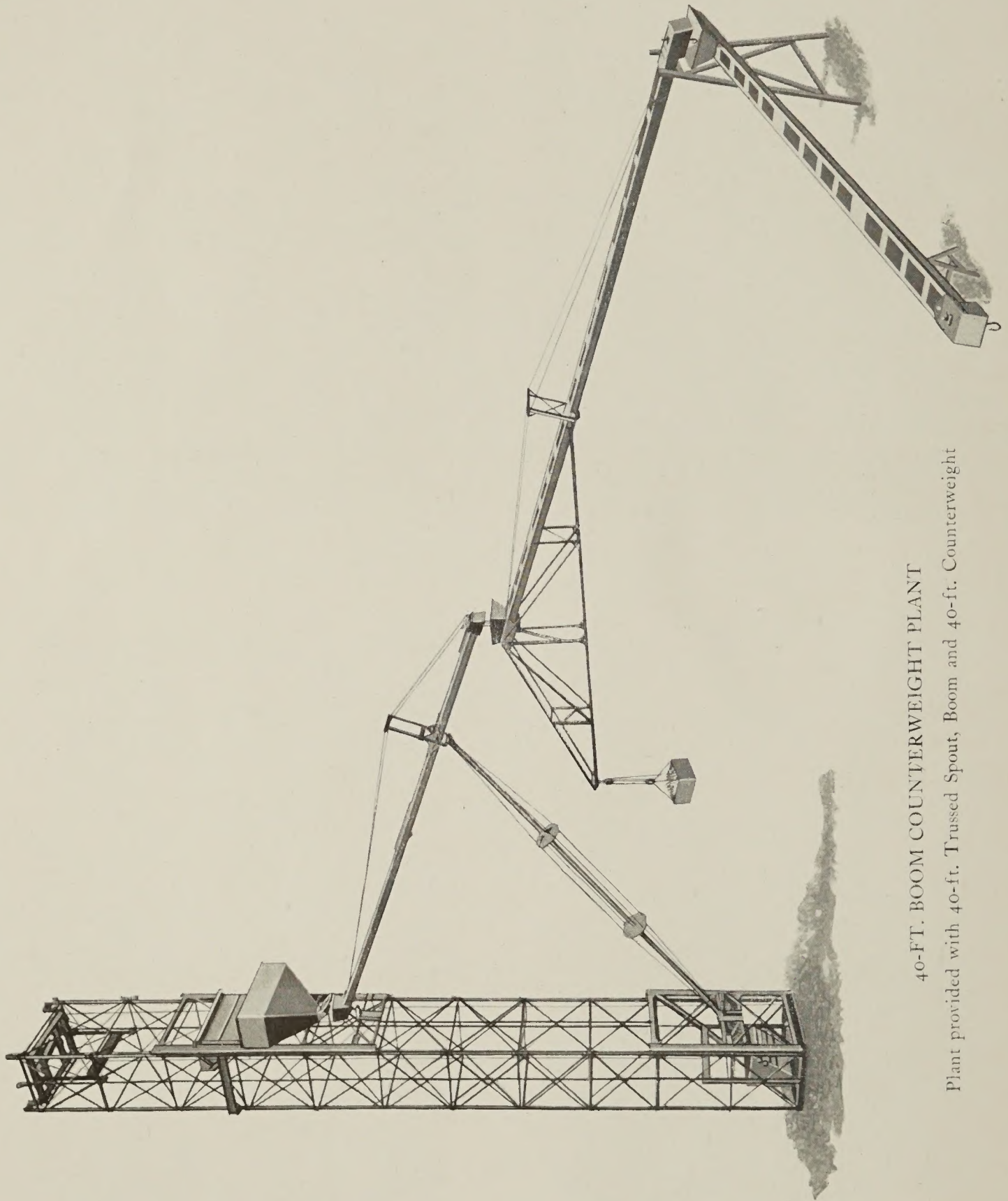
Powhatan Apartment Bldg., Chicago
Lind Construction Co., Chicago, Gen. Contractor



Hupp Motor Car Co. Building, Detroit
Everitt Winters Co., Detroit, Gen. Contractor

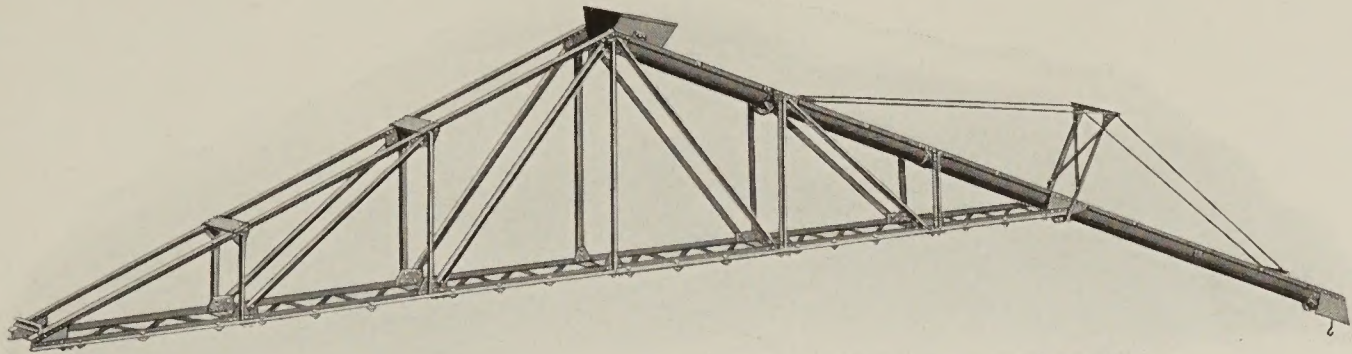
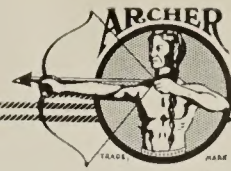


THE ARCHER IRON WORKS

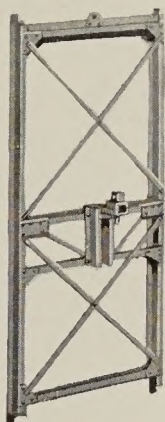


40-FT. BOOM COUNTERWEIGHT PLANT
Plant provided with 40-ft. Trussed Spout, Boom and 40-ft. Counterweight

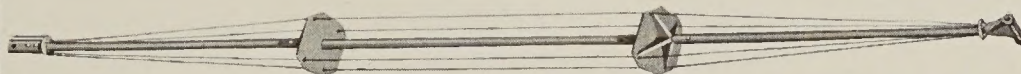
THE ARCHER IRON WORKS



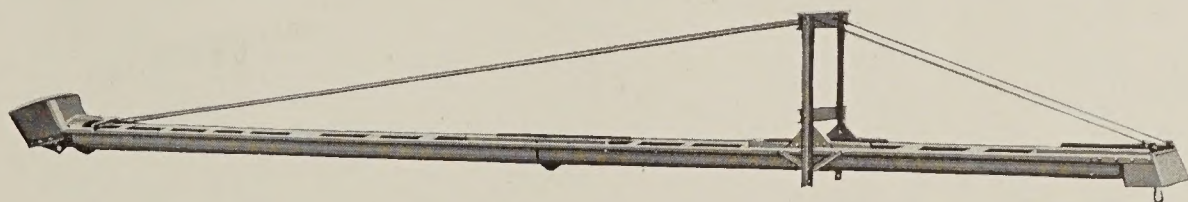
No. C40HS. 40-ft. Counterweight Spout



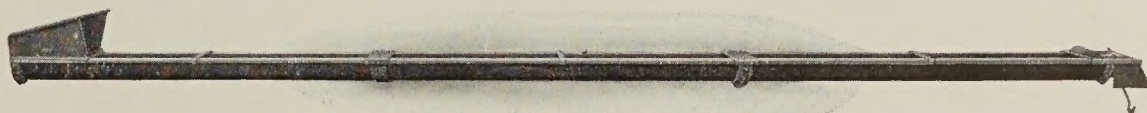
No. 500. Boom Seat



No. 501. Tubular Tower Boom



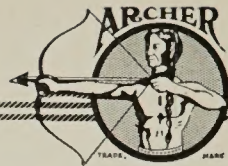
No. 502. 40-ft. Boom Spout



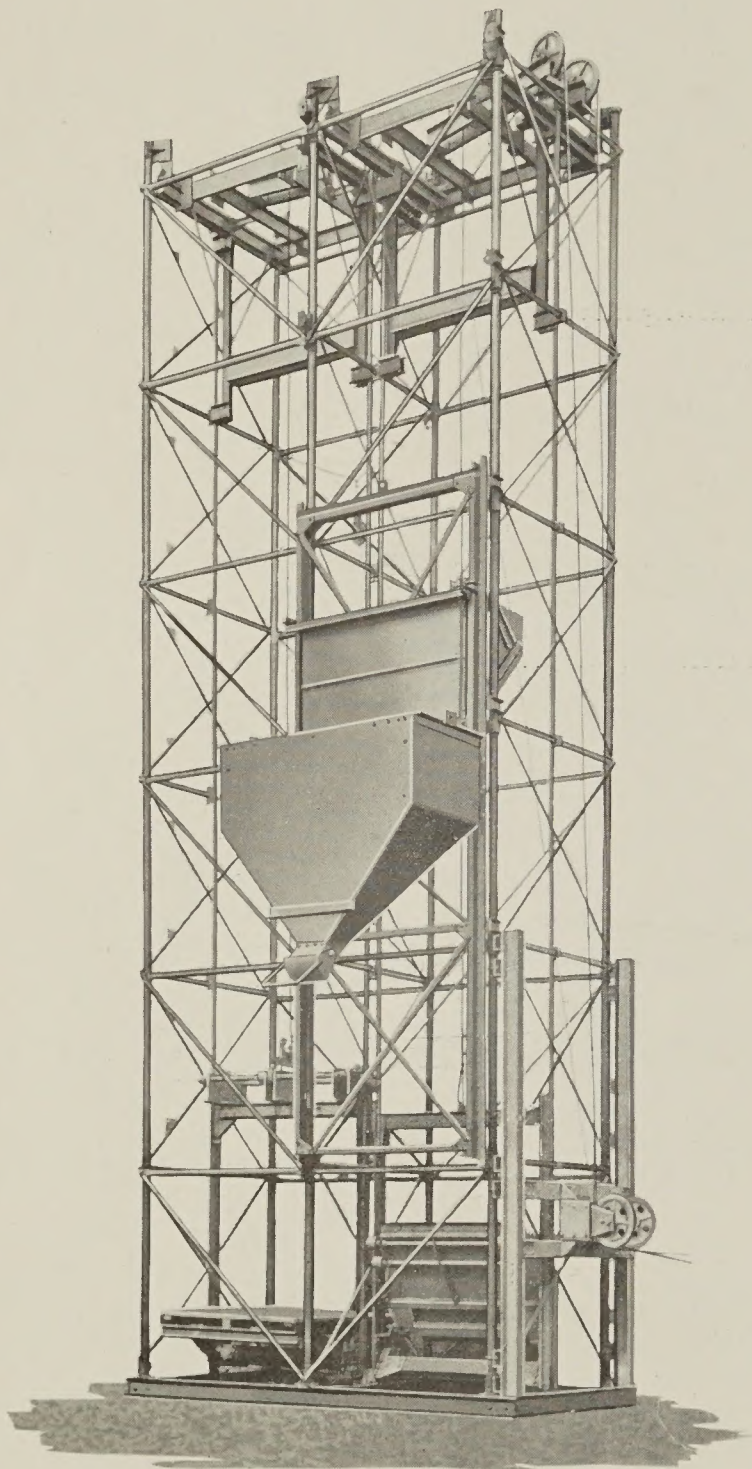
No. 30HS. 30-ft. Swivel Head Spout

FOR OTHER CHUTE SECTIONS, FLOOR HOPPERS, ETC.
SEE CATALOG 1026

THE ARCHER IRON WORKS



Archer Tubular Towers are made in both single and double well, with cages for Two or Three Wheelbarrow Capacity.



Cut illustrating double well tower showing material elevator in one well and concrete bucket in other well. Concrete bucket can be replaced with material elevator in a few moments' time. Sliding catheads, sliding hopper frame with switch chute, also bottom swivel sheave frame are clearly shown. Switch chute in position for dumping bucket. Note convenient Ladder arrangement, standard with Archer Towers.

ARCHER TUBULAR STEEL TOWER with one-third less bolts are cheaper to erect or dismantle than any other tower.

Sliding Catheads can be moved from one height to the next in one-quarter of the time required by other makes.

Hopper Slide-Up frame means quick shifting of hopper from floor to floor.

Bottom swivel sheaves fastened to auxiliary frame. This frame compensates for removing diagonals in bottom panel, which carries the heaviest load on the tower.

Hyatt Roller Bearing Sheaves furnished as standard equipment.

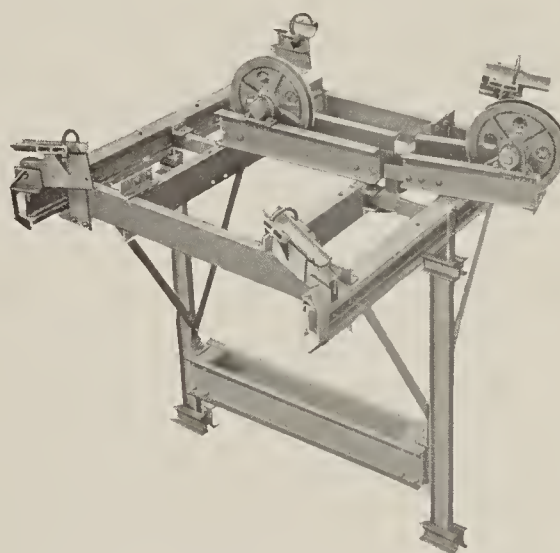
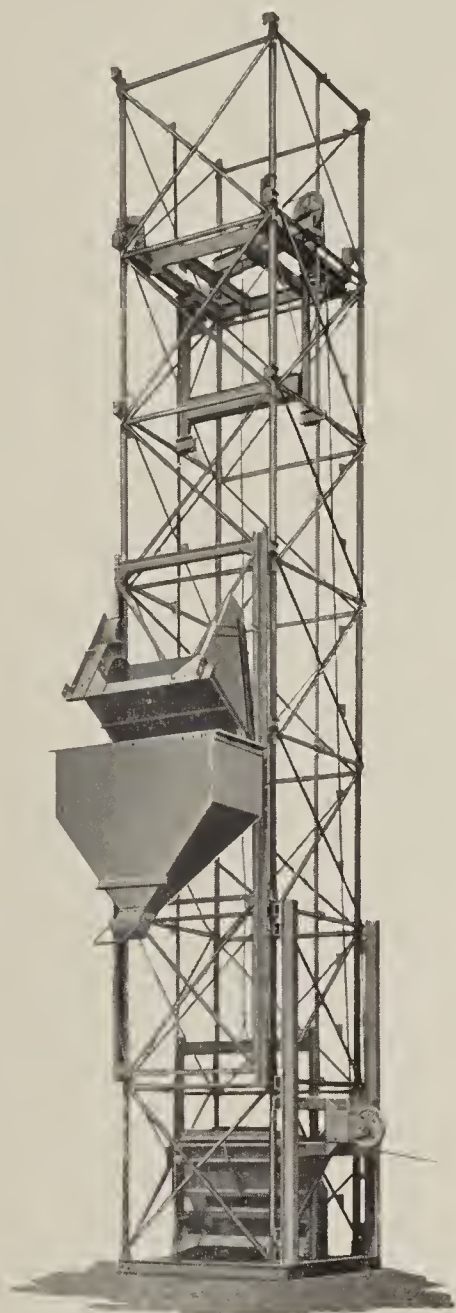
Quick dumping and quick righting bucket with overrun of bucket to cathead are features of exceptional advantage of Archer Bucket.



THE ARCHER IRON WORKS

Single Well Tower

Single well tower showing bucket in loading position. Sliding frame carrying switch chute and tower hopper with switch chute tipped out in position for raising hopper. Note diagonals on sliding frame which compensate for diagonals removed from front of tower in panel where bucket dumps. Archer tower is kept 100% strong in every panel. Sliding cathead shown in position. Note arrangement of ladder standard with the Archer Tubular Tower.



No. 503 SLIDING CATHEAD

Cathead is assembled on ground in tower and raised to position by hoist cable and hoisting engine.



Track Connection for Single Well.



Track Connection for Double Well.

Cuts show method of connecting guide rail to Guide Rail Girt. A bolt is inserted every fourth panel to eliminate any tendency of Guide Rail to lift up.



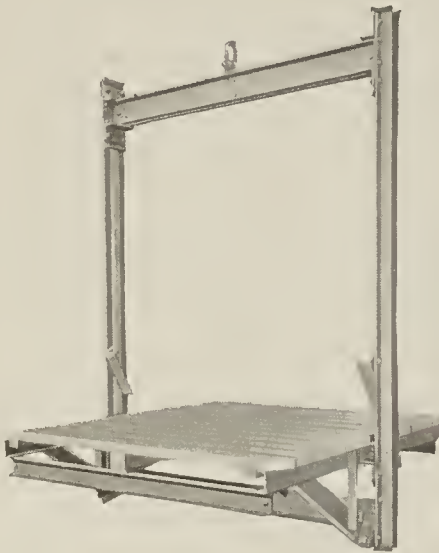
No. 504 CATHEAD RAISING SHEAVE

This sheave is set in top of track. Bucket or elevator cable is set on sheave and fastened to cathead. Sliding cathead can then be raised by hoisting engineer.



THE ARCHER IRON WORKS

Details of Archer Tubular Towers



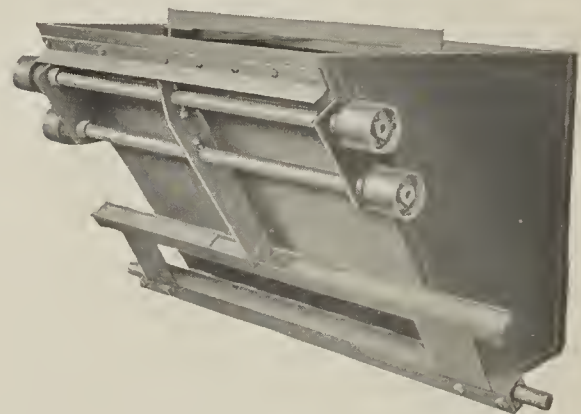
No. 505 Material Elevator.

Material Elevator

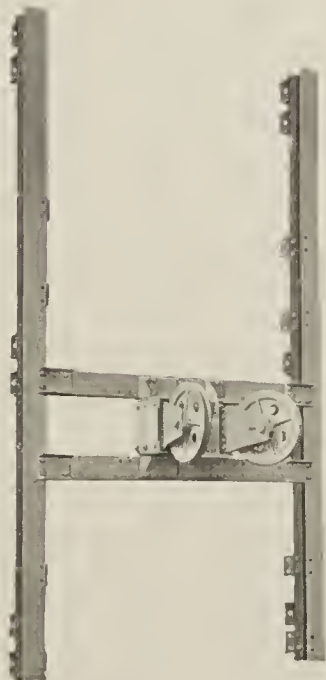
The same bail is used for both the material elevator and concrete bucket and it only takes a few minutes to remove platform and install concrete bucket. Two wheelbarrow platform is 6'2"x5'8". Three wheelbarrow platform is 8'0"x6'0". Archer material elevator is so designed that it can be used in a single or double well tower.

Concrete Bucket

ARCHER TUBULAR BUCKET is quickly inserted or removed in same bail that is used for material elevator. Note simplicity of design, an outstanding feature of all Archer Buckets. This bucket is so designed that it can overrun the receiving hopper and be carried up to the cathead automatically rerighting itself when lowered and coming down the tower in an upright position.



No. 506 Concrete Bucket.



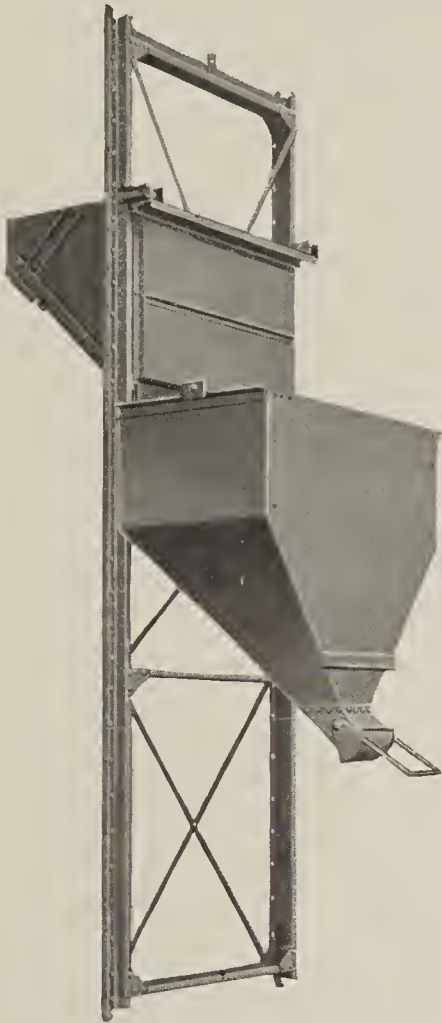
No. 507. Bottom Sheave Frame.

Bottom Sheave Frame

Bottom sheave frame is attached to bottom of tower or the panel of the tower in which diagonals are removed to wheel onto material elevator. This frame is made strong enough to compensate for taking out the diagonals on front face of tower so that this panel of tower is the equal in strength of any other panel. Bottom sheave is 18" in diameter and equipped with Hyatt Roller Bearings as standard equipment. Note that sheave can be placed at top, intermediate or lower part of frame.

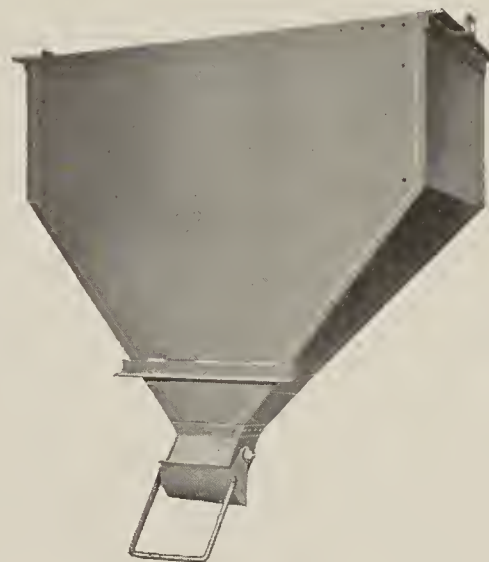


Details of Archer Tubular Towers



Sliding Frame Assembly

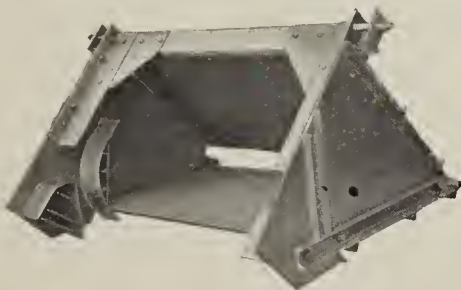
Assembly of Tower Hopper, Sliding Frame and Switch Chute. Switch Chute in position for dumping bucket. Before raising sliding frame, Switch Chute is tipped forward by removing the two locking pins which hold it to sliding frame. Tower Hopper is shown in sloping back position. It can be reversed and made straight back when spouts are used, care being taken to reverse the hopper spout.



No. 508. Archer Tower Hopper.

Tower Hopper

ARCHER TOWER HOPPER is made reversible and, therefore, the same hopper can be used and attached to sliding frame sloping back with extended gate for taking off concrete in buggies or reversed and made straight back when concrete spouts are used.

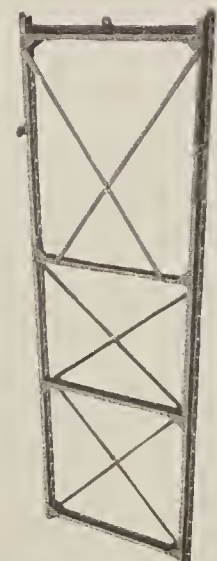


No. 510. Switch Chute.

Switch Chute dumps bucket and leads concrete into tower hopper. Bottom of switch chute is replaceable when worn by concrete.

Sliding Frame

Sliding frame is adjustable every 9" for buggy use. Note diagonals are provided in top panel to compensate for tower diagonals removed for dumping switch making this panel of tower as strong as any other. Every panel of the Archer Tubular Tower is kept 100% strong.

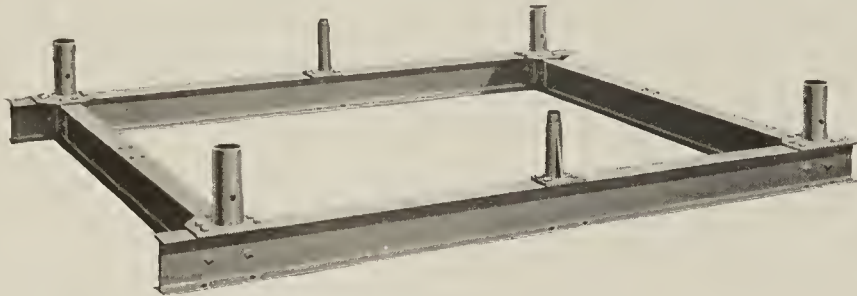


No. 509. Sliding Frame.



THE ARCHER IRON WORKS

Details of Archer Tubular Towers



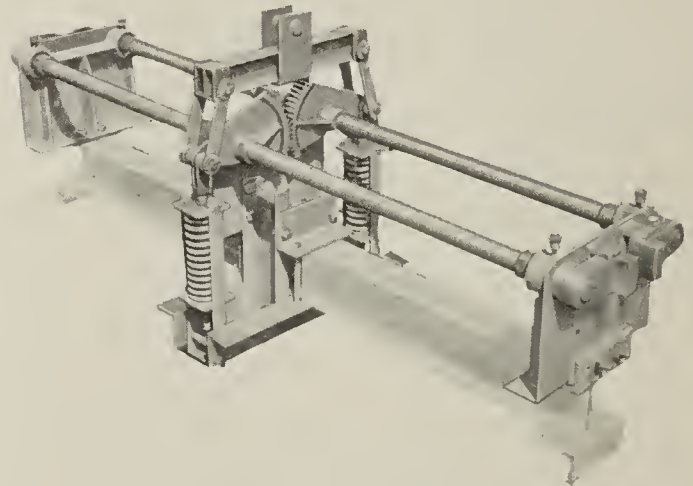
No. 511. Base with Guide Rail Shoes.

Base

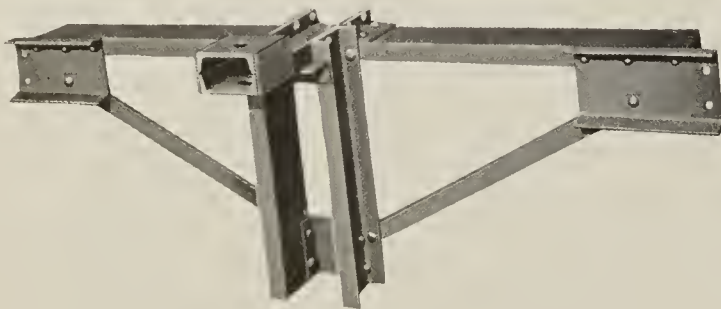
Bottom base section which is made up of I-beams to which corner guide shoes and guide rail shoes are bolted. Be sure base is set so that guide rail shoes are parallel to building line.

Safety Device

Safety Device is bolted to top of elevator bail and so designed that double dogs grab the guide rails on opposite sides, bringing elevator to an instant stop.



No. 512. Safety Device.



No. 513. Boom Spout Bridle Seat.

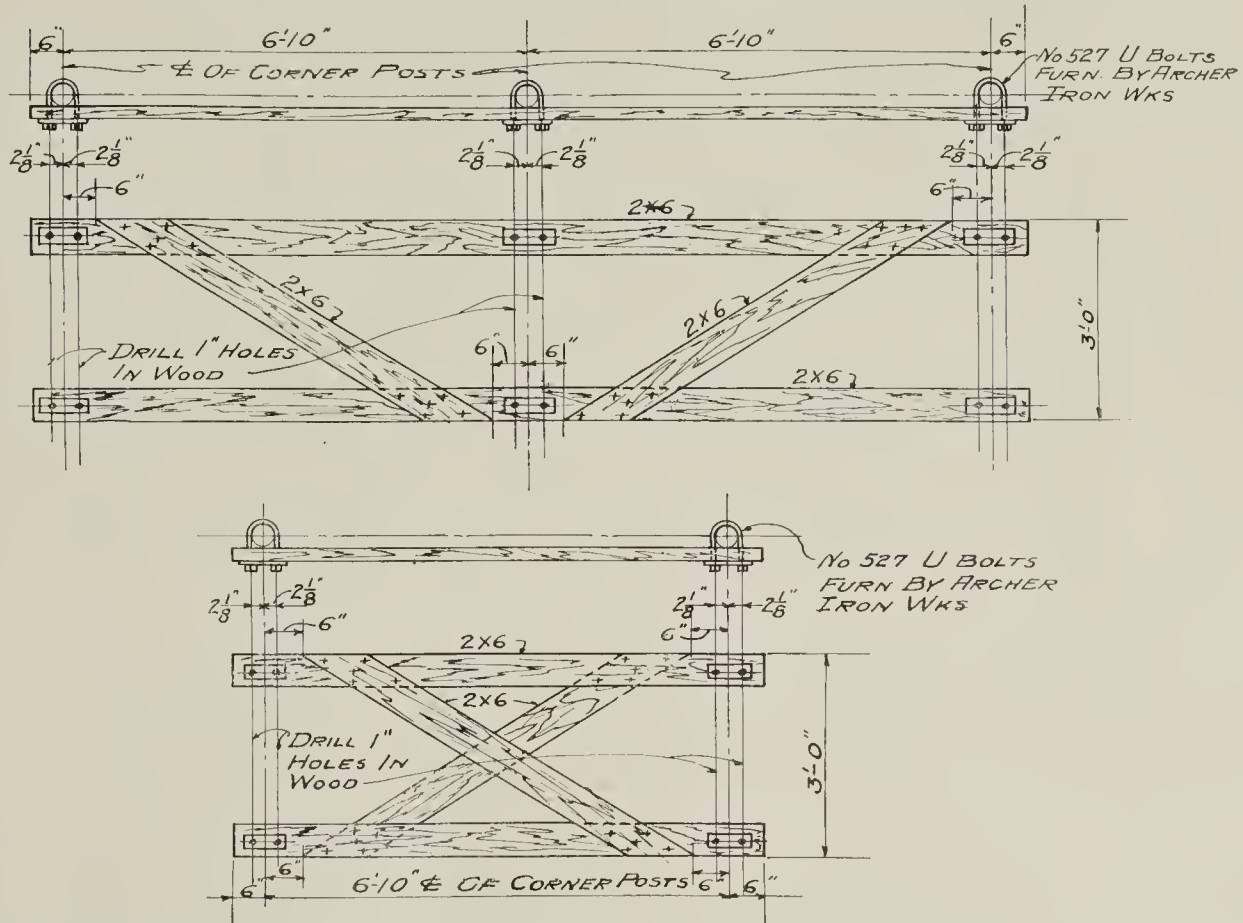
Boom Spout Bridle Seat

Whenever spouts are to be hung off from the Tubular Tower, the first section is supported on the sliding frame under the tower hopper with the boom spout bridle. This bridle bolts to sliding frame under hopper in holes provided.

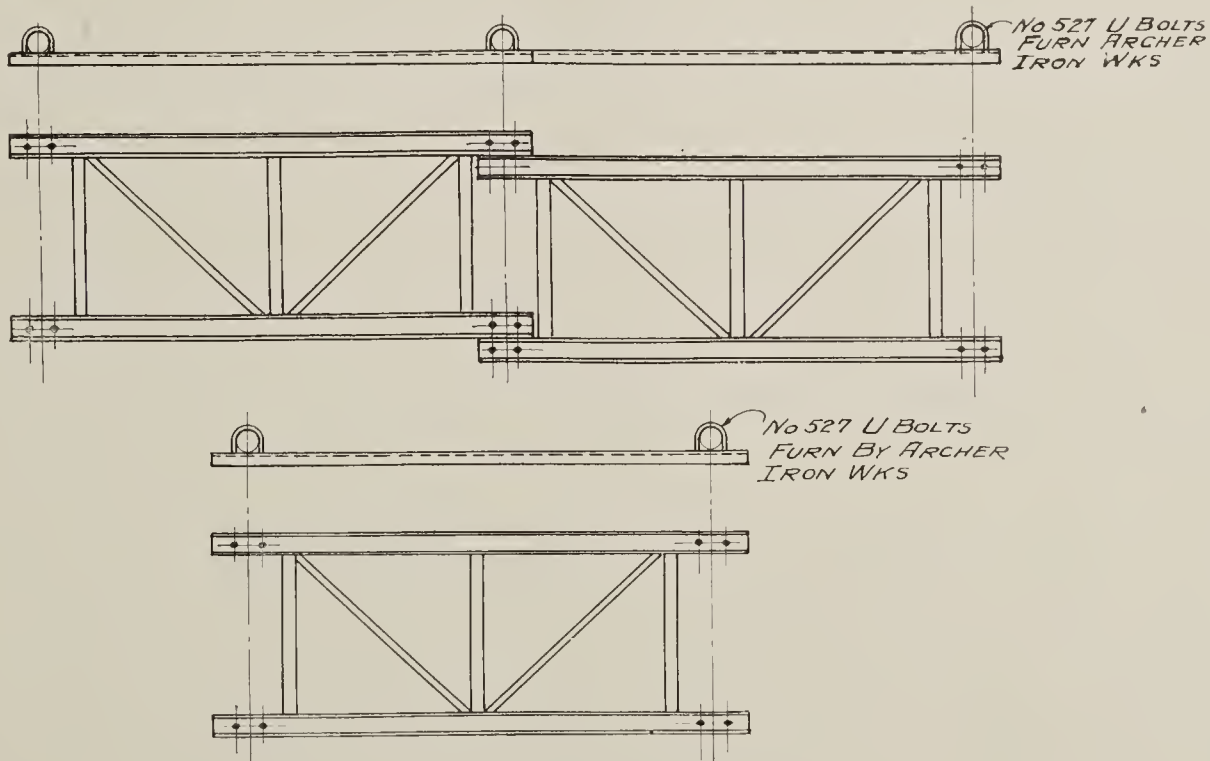


THE ARCHER IRON WORKS

WOOD LANDING PANELS BUILT BY CONTRACTOR



The above illustration shows wood landing panels for single and double cage towers, which can best be built by the contractor himself at one-tenth the cost of steel panels shown below. These panels will have the same strength as our steel panels.



No. 514. Steel Landing Panels.

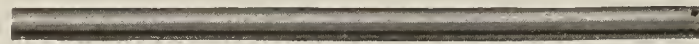
For those desiring a steel panel, the cut illustrates an all steel panel, one of which is used for the single well and two are required for the double well at each floor where it is desired to wheel off materials from the elevator.



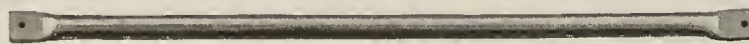
Details of Archer Tubular Towers



Assembly of Corner Post, Connecting Sleeve and Guide Angle.



No. 515. Tower Corner Post



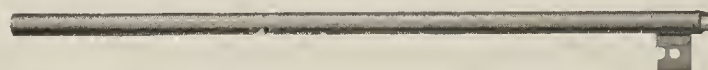
No. 516. Plain Girt for 2WB or 516A for 3WB



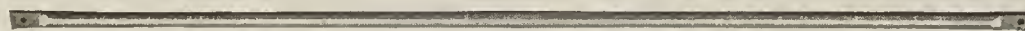
No. 517. Single Guide Rail Girt for outside Panels of Single and Double Well Towers.



No. 518. Double Guide Rail Girt for inside Panels of Double Well Towers.



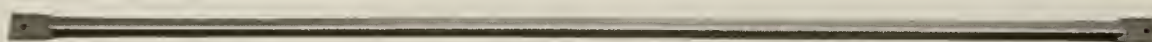
No. 519. Guide Rail or Track.



No. 520. Plain Diagonal.



No. 521. Diagonal with Ladder Step.



No. 522. Steel Angle Diagonal for 3 Wheelbarrow Tower.



No. 523. Corner Post Chair.



No. 524. Corner Guide Angle.



No. 525. Guide Rail Chair.



No. 526. Connecting Sleeve.



No. 527. U-Bolt.

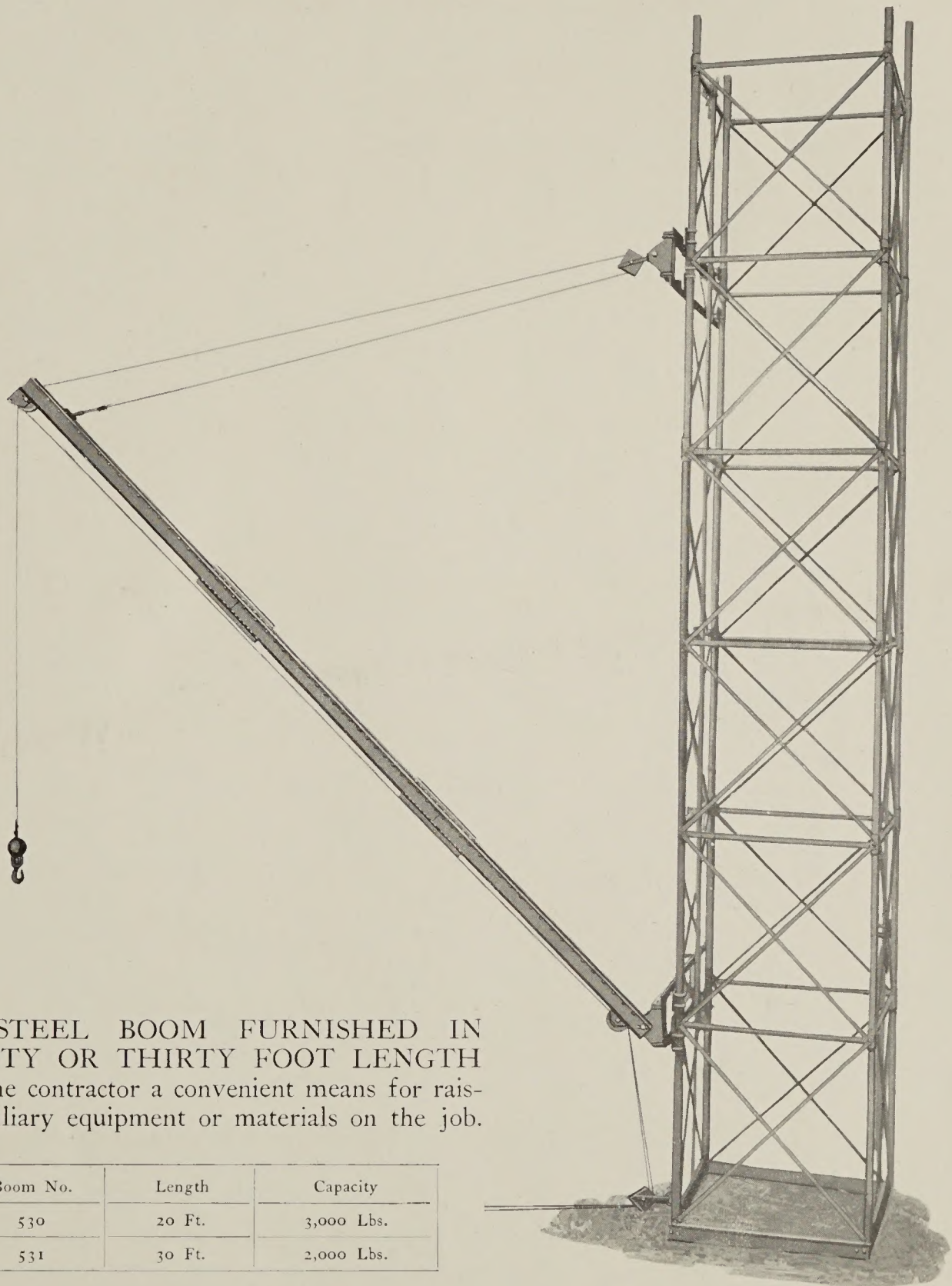


No. 528. Rail Chair for Double Well.



THE ARCHER IRON WORKS

Details of Archer Tubular Towers



ALL STEEL BOOM FURNISHED IN TWENTY OR THIRTY FOOT LENGTH offers the contractor a convenient means for raising auxiliary equipment or materials on the job.

Boom No.	Length	Capacity
530	20 Ft.	3,000 Lbs.
531	30 Ft.	2,000 Lbs.



THE ARCHER IRON WORKS

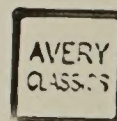
SINCE 1910 ARCHER HAS BUILT A FULL LINE OF TOWER EQUIPMENT FOR WOODEN TOWERS WHICH THE CONTRACTOR BUILDS HIMSELF. FOR THE PAST FIVE YEARS ARCHER STEEL MAST HOISTS HAVE BEEN ACCEPTED AS THE LEADING STEEL MAST EQUIPMENT. ASK FOR CATALOG 1026, WHICH ILLUSTRATES A FULL LINE OF MAST HOIST EQUIPMENT, ALSO EQUIPMENT FOR WOOD TOWERS, CONCRETE CHUTES AND FLOOR HOPPERS.



ARCHER IRON WORKS

Established 1891

WESTERN AVE. AND 34TH PLACE
CHICAGO



Cat. No. 129

Printed in U. S. A.

